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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
. 09/846,568 05/01/2001		05/01/2001	Michael Christopher Martin	RSW920010076US1	RSW920010076US1 4861		
- 26502	7590	05/01/2006		EXAMINER			
IBM COF		ON	CHANG, JUNGWON				
1701 NOR		Т	ART UNIT	PAPER NUMBER			
ENDICOT	T, NY 13	760	2154				
			DATE MAILED: 05/01/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)	
		09/846,56	09/846,568 MARTIN ET AL.		
	Office Action Summary	Examiner		Art Unit	
		Jungwon (2154	
- Period for	- The MAILING DATE of this communic Reply	ation appears on the	cover sheet with the d	correspondence add	dress
WHICI - Extens after S - If NO p - Failure Any re	PRTENED STATUTORY PERIOD FO HEVER IS LONGER, FROM THE MA sions of time may be available under the provisions of IX (6) MONTHS from the mailing date of this community (a) MONTHS from the mailing date of this community (b) He maximum status to reply within the set or extended period for	ILING DATE OF THE 37 CFR 1.136(a). In no even nication. It or period will apply and will, by statute, cause the apply	IIS COMMUNICATION ent, however, may a reply be tir Il expire SIX (6) MONTHS from ication to become ABANDONE	N. nely filed the mailing date of this co ED (35 U.S.C. § 133).	
Status					
2a)☐ 3)☐	Responsive to communication(s) filed This action is FINAL . 2t Since this application is in condition for closed in accordance with the practice	b)⊠ This action is n or allowance except	on-final. for formal matters, pro		merits is
Dispositio	on of Claims				
5)	Claim(s) 1-11 is/are pending in the apple of the above claim(s) is/are Claim(s) is/are allowed. Claim(s) 1-11 is/are rejected. Claim(s) is/are objected to. Claim(s) is/are objected to. Claim(s) are subject to restriction Papers The specification is objected to by the The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	e withdrawn from containing on and/or election responses to the containing of the correction is required.	equirement. objected to by the be held in abeyance. Seed if the drawing(s) is objected to be objected.	e 37 CFR 1.85(a). njected to. See 37 CF	
·	nder 35 U.S.C. § 119	•			
12)[/ a)[Acknowledgment is made of a claim for All b) Some * c) None of: 1. Certified copies of the priority of the priority of the priority of the copies of the priority of the certified copies of the certified copies of the certified copies of the the attached detailed Office action	locuments have bee locuments have bee f the priority docume al Bureau (PCT Rul	n received. n received in Applicat ents have been receiv e 17.2(a)).	ion No ed in this National	Stage
2) Notice 3) Inform	(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or F No(s)/Mail Date <u>2/21/06</u> .		4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate)-152)

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DETAILED ACTION

- 1. This Action is in response to RCE filed on 2/21/2006. Claims 1-11 are presented for examination.
- 2. IDS filed on 2/21/2006 is considered by the Examiner.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1 and 4-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sarukkai (US 6,775,695), in view of Glance et al. (US 6,415,368), hereinafter Glance.
- 5. As to claim 1, Sarukkai discloses the invention substantially as claimed, including a method for adapting to change in a demand on a web server (col. 1, lines 22-30), comprising:

associating session tracking objects with browsers that access a web server (figs. 2-4; col. 2, lines 43-47; col. 4, lines 1-38, "traces are logs of client sessions on the Internet"), wherein the session tracking objects include web pages requested by the

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browsers (figs. 2-4; col. 2, lines 43-47; col. 4, lines 1-38); and analyzing the web pages requested by the browsers to determine caching priorities for the web server (col. 5, lines 27-33).

- 6. Although each web page is associated an identification (URL) that is known to one of ordinary skill in the art, Sarukkai does not specifically disclose identifications of web pages. Glance discloses identifications of web pages (col. 1, lines 14-16; col. 2, lines 43-45; col. 3, lines 10-58). It would have been obvious to one of ordinary skill in the art at the time of the invention was made to combine the teachings of Sarukkai and Glance because Glance's identifications of web pages would be easily accessed by the server to assign a caching priority to each URL periodically (Glance, col. 6, lines 44-66).
- 7. As to claim 4, Sarukkai discloses wherein the session tracking objects are HTTP session objects (figs. 2-4; col. 2, lines 43-47; col. 4, lines 1-38).
- 8. As to claim 5, Sarukkai discloses wherein the caching priorities are proportional to relative frequencies of browser requests for web pages (col. 4, lines 39-61).
- 9. As to claim 6, Sarukkai discloses wherein the caching priorities are proportional to recency of browser requests for web pages (col. 1, line 66 col. 2, line 2; col. 2, lines 38-42; col. 6, lines 21-30).

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10. As to claim 7, Sarukkai discloses wherein the act of analyzing is performed periodically (col. 11, lines 8-13).

- 11. As to claim 8, Sarukkai discloses wherein the act of analyzing is performed in response to a triggering event (col. 8, lines 28-53, "requesting a document").
- 12. As to claims 9-11, they are rejected for the same reasons set forth in claim 1 above. In addition, Sarukkai discloses caching replacement algorithm (col. 5, line 48 col. 6, lines 37). Using the caching replacement algorithm, the web pages stored in the cache are updated. Furthermore, Glance discloses altering a server cache responsive to the caching priorities (i.e., caching replacement algorithm; col. 1, lines 31-45; calculate priority weight of URL, update cache index, 68, fig. 2; update cache index with URL, weight, timestamp, 86, fig. 3; col. 8, lines 21-23). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Sarukkai and Glance because Glance's altering the server cache would improve quality of service by periodically updating the server cache with newly calculated priority of web pages (col. 1, lines 31-45; calculate priority weight of URL, update cache index, 68, fig. 2; update cache index with URL, weight, timestamp, 86, fig. 3; col. 8, lines 21-23).
- 13. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sarukkai, Glance, further in view of Ronald et al. (US 2003/0041143), hereinafter

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referred to as Ronald.

14. As to claims 2 and 3, Sarukka and Glance do not specifically disclose the identifications of the last N pages requested by each of the browsers and N is five. Ronald discloses the identifications of the last N pages requested by each of the browsers (fig. 5; page 5, [0069], [0070]) and N is five (i.e., if user starting from page E – D – G – M – N, then N is five; or if user starting from page F – D – G – M – N, then N is five; fig. 5). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Sarukka, Glance and Ronald because Ronald's identification of the requested last pages would allow the web server to determine the popularity of each web page by analyzing the number of times users have visited the web pages.

Conclusion

- 15. Applicant's arguments with respect to claims 1-11 have been considered but are most in view of the new ground(s) of rejection.
- 16. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Isoyama et al, patent 6,546,422, Smith et al, patent 6,742,033, Cherkasova et al, patent 6,425,057, Cherkasova et al, patent 6,546,473 disclose caching protocol method and system based on request frequency and relative storage duration.

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17. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jungwon Chang whose telephone number is 571-272-3960. The examiner can normally be reached on 9:30-6:00 (Monday-Friday).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A Follansbee can be reached on 571-272-3964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jungwon Chang

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April 26, 2006